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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,443	08/26/2003	Kil-soo Jung	1793.1003	1643
49455 7590 10/03/2008 STEIN, MCEWEN & BUI, LLP 1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005				
EXAMINER				
CHIO, TAT CHI				
ART UNIT		PAPER NUMBER		
2621				
MAIL DATE		DELIVERY MODE		
10/03/2008		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/647,443

**Applicant(s)**

JUNG ET AL.

**Examiner**

TAT CHI CHIO

**Art Unit**

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 04 April 2008.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,3 and 5-10 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1,3 and 5-10 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☒ Information Disclosure Statement(s) (PTO-893)  
4) ☐ Interview Summary (PTO-413)  
5) ☐ Notice of Informal Patent Application  
6) ☐ Other: \_\_\_\_\_  
Paper No(s)/Mail Date 5/5/2008

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/10/2007 has been entered.

### ***Response to Arguments***

2. Applicant's arguments filed 12/10/2007 have been fully considered but they are not persuasive.

The applicant argues that Lamkin fails to disclose wherein the markup document includes event registration information to check whether the user performed the actions.

In response, the examiner respectfully disagrees. Lamkin discloses event registration to check whether the user performed the action in Table A.1.42. Table A.1.41 checks if a User Operation is valid and the main purpose of this command is to retrieve the current UOP (User Operation) status. Checking the validity of a user operation can be done if there is a user operation, therefore, this information provides whether the user performed an action. Furthermore, since the main purpose of this command is to retrieve the current user operation status, checking whether user performed an action is needed before retrieving the current user operation status.

The applicant argues that Lamkin does not disclose prohibiting, when a second event occurs using second event information recorded in the markup document, the AV playback engine from being informed of the occurrence of the key input event.

In response, the examiner respectfully disagrees. Lamkin discloses that the navigation buttons, up, left, right, and down, in one embodiment, do not work for DVD navigation unless video is playing a full-screen mode. The examiner deems that "when video is not playing a full-screen mode" is a second event. Therefore, when the video is not playing a full-screen mode (second event), the navigation buttons do not work and therefore, the key input event will not be informed to the AV playback engine by the ENAV engine.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 3, and 5-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Lamkin et al. (US 7,178,106 B2).

**Consider claim 1**, Lamkin et al. teach a method of handling a user input in an interactive mode in which played back AV data is displayed with a markup document, the method comprising: when a key input event corresponding to a user action occurs, informing an ENAV engine, which interprets and executes the markup document, of the occurrence of the key input event (742, 410, 702, 704, 706, 708, 710, 712, 714, and 716 of Fig. 7); informing, by default, by the ENAV engine, an AV playback engine, which plays back the AV data, of the occurrence of the key input event (422, 426, and 734 of Fig. 7), and prohibiting, when a second event occurs using second event information recorded in the markup document, the AV playback engine from being informed of the occurrence of the key input event (col. 19, lines 44-47 and lines 51-54); wherein the informing of the ENAV engine of the occurrence of the key input event comprises creating the key input event using event information recorded in the markup document (col. 11, lines 56-66), the informing of the AV playback engine of the occurrence of the key input event comprises transmitting a playback control command corresponding to the key input event to the AV playback engine to handle the key input event (col. 10, lines 4-8), and the markup document includes event registration information to check whether the user performed the user action (Table A.1.41).

**Consider claim 3**, Lamkin et al. teach the method, wherein: the informing of the ENAV engine of the occurrence of the key input event comprises creating the key input event using an onclick event that occurs by clicking on a button made in the markup document, the onclick event being the first event information recorded in the markup document (col. 11, lines 56-66), and the informing of the AV playback engine of the key

input event comprises transmitting a playback control command corresponding to the onclick event to the AV playback engine to handle the onclick event (col. 10, lines 4-8).

**Consider claim 5**, Lamkin et al. teach the method, wherein: the prohibiting comprises creating the second event according to the second event information which is recorded using an Application Program Interface (API) (Table A.1.41).

**Consider claim 6**, Lamkin et al. teach the method, further comprising: controlling the markup picture in correspondence with a third event which occurs according to a third event information recorded in the markup document (col. 19, lines 58-59).

**Consider claim 7**, Lamkin et al. teach a method of handling a user input in an interactive mode, comprising: determining whether a key input event occurs as a first event according to first event information recorded in a markup document or via a predetermined key of a remote control pressed by a user (col. 19, lines 44-47); informing, if the key input event occurs, an AV playback engine of occurrence of the key input event via an ENAV engine (col. 19, lines 44-47); determining whether a second event occurs using second event information recorded in the markup document (Table A.1.41 and col. 19, lines 51-54); prohibiting, by the ENAV engine, if the second event occurs, the AV playback engine from being directly informed of occurrence of the key input event (Table A.1.41 and col. 19, lines 51-54); and transmitting, by the ENAV engine, if the key input event matches with second event information recorded in the markup document so that the second event occurs, a control command corresponding to the second event to the AV playback engine (Table A.1.41 and col. 19, lines 51-54).

**Consider claim 8**, Lamkin et al. teach a method of handling a user input in an interactive mode, comprising: determining whether a key input event occurs as a first event according to first event information recorded in a markup document or via a predetermined key of the remote control pressed by a user (col. 19, lines 44-47); informing, if the key input event occurs, an AV playback engine of occurrence of the key input event via an ENAV engine (col. 19, lines 44-47); determining whether user input is forwarded directly to or prohibited from being forwarded to the AV playback engine, referred to as a next event, using next event information recorded in the markup document; (Table A.1.41 and col. 19, lines 51-54); and performing, by the ENAV engine, if the next event occurs, a predetermined operation corresponding to the next event (Table A.1.41 and col. 19, lines 51-54).

**Consider claim 9**, Lamkin et al. teach a method of handling a user input in an interactive mode, comprising: pressing, by a user, a predetermined key of a remote control to cause a key input event (730 of Fig. 7); and handling, by an interface handler of an ENAV engine, the key input event by transmitting a playback control command corresponding to the key input event to an AV playback engine (702 and 704 of Fig. 7) according to first event information recorded in a markup document, including event registration information to check whether the user pressed the predetermined key, or by prohibiting the AV playback engine from being informed of the occurrence of the key input event using second event information recorded in the markup document (col. 11, lines 56-66, TABLE A.1.41, and col. 19, lines 51-54).

**Consider claim 10**, Lamkin et al. teach a method of handling a user input in an interactive mode, comprising: pressing, by a user, a predetermined key of a remote control to cause a key input event (730 of Fig. 7); informing an interface handler of an ENAV engine of occurrence of the key input event (704 of Fig. 7); informing, by the interface handler of the ENAV engine, an AV playback engine of occurrence of the key input event using first event information recorded in a markup document, the markup document including event registration information to check whether the user pressed the predetermined key (702 of Fig. 7 and TABLE A.1.41); prohibiting, when a second event occurs using second event information recorded in the markup document, the AV playback engine from being informed of the occurrence of the key input event (col. 19, lines 44-47 and lines 51-54); and performing, by the AV playback engine, an operation corresponding to the key input event (col. 11, lines 56-67 and col. 12, lines 1-15).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TAT CHI CHIO whose telephone number is (571)272-9563. The examiner can normally be reached on Monday - Thursday 9:00 AM-5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on (571)-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. C. C./  
Examiner, Art Unit 2621

/Thai Tran/  
Supervisory Patent Examiner, Art Unit 2621